FIG. 1

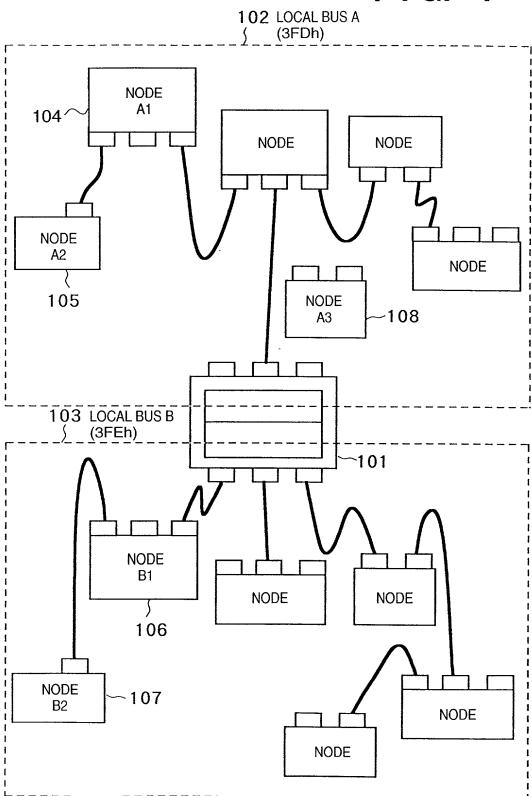
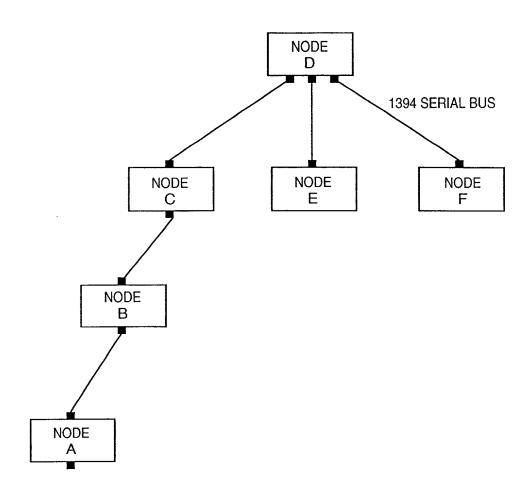


FIG. 2



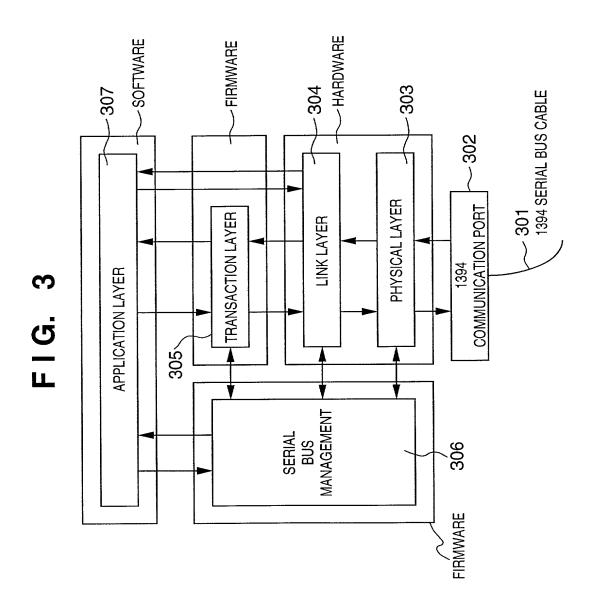


FIG. 4

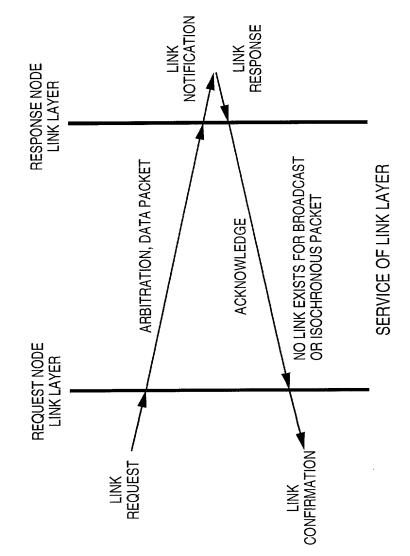


FIG. 5

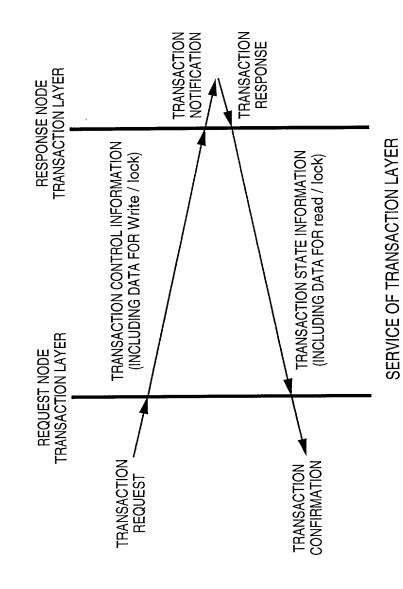


FIG. 6

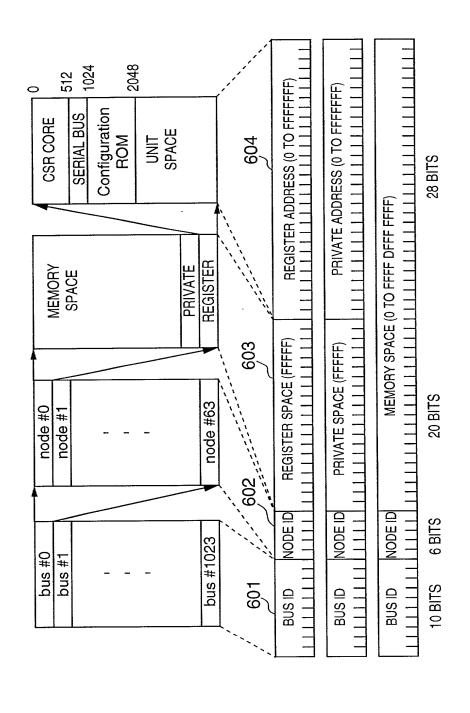


FIG. 7 CSR CORE REGISTER

_						7/	/40	_						
סטון סטון בין ובין נובין	FUNCTION	INFORMATION ABOUT STATUS AND CONTROL	INFORMATION REPRESENTING WHETHER STATE_CLEAR CAN BE WRITTEN	BUS ID + NODE ID	RESET BUS BY WRITE IN THIS AREA	REGISTER FOR ACCESSING ROM LARGER THAN 1K	VALUE OF TIMER FOR DETECTING TIME-OUT OF SPLIT TRANSACTION	DIAGNOSTIC REGISTER	UNUSED IN IEEE1394	INTERRUPT NOTIFICATION REGISTER	UNUSED IN IEEE1394	MESSAGE NOTIFICATION REGISTER	RESERVED	RESERVED FOR IEEE1394
2.50	REGISTER NAME	STATE_CLEAR	STATE_SET	NODE_IDS	RESET_START	INDIRECT_ADDRESS, INDIRECT_DATA	SPLIT_TIMEOUT	ARGUMENT, TEST_START, TEST_STATUS	UNITS_BASE, UNITS_BOUND, MEMORY_BASE, MEMORY_BOUND	INTERRUPT_TARGET, INTERRUPT_MASK	CLOCK_VALUE, CLOCK_TICK_PERIOD, CLOCK_STROBE_ARRIVED, CLOCK_INFO	MESSAGE_REQUEST, MESSAGE_RESPONSE		ERROR_LOG_BUFFER
	OFFSET (HEXADECIMAL)	000	004	800	200	010~014	018~01C	020~02C	030~04C	050~054	058~07C	080~0FC	100~17C	180~1FC

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SERIAL RUS REGISTER

OFFSET	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCHRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	PEGISTER CONCERNING POWER SLIPPI Y
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214~218		RESERVED
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE ISOCHRONOUS TRANSFER BANDWIDTH
224~228	CHANNELS_AVAILABLE	MANAGE ISOCHRONOUS TRANSFER CHANNEL NUMBER
22C	MAINT_CONTROL	altological and the second and the s
230	MAINT_UTILITY	
234~3FC		RESERVED

CONFIGURATION ROM OF MINIMUM FORMAT

8 bits	24 bits
01	VENDOR ID

Bus Info Block Length	ROM Length	CRC							
	Bus Info Block		1001						
	Root Directory								
Node dependent info directory									
Unit directories									
Root & unit leaves									
Vei	ndor dependent informat	tion	1006						

FIG. 11

SERIAL BUS DEVICE REGISTER	FUNCTION	RESERVED	INFORMATION ABOUT CONFIGURATION OF SERIAL BUS	RESERVED	INFORMATION ABOUT TRANSFER SPEED OF SERIAL BUS	RESERVED
SERIAL BUS DI	REGISTER NAME		TOPOLOGY_MAP		SPEED_MAP	
	OFFSET (HEXADECIMAL)	800~FFC	1000~13FC	1400~1FFC	2000~2FFC	3000~FFFC

SECTIONAL VIEW OF CABLE

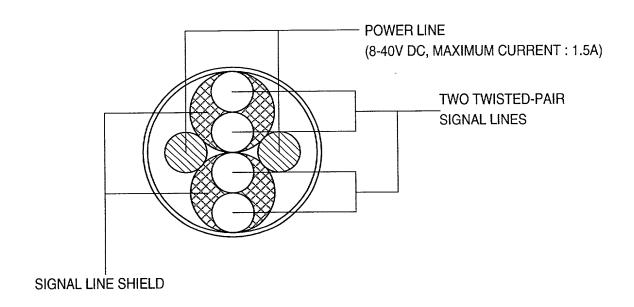
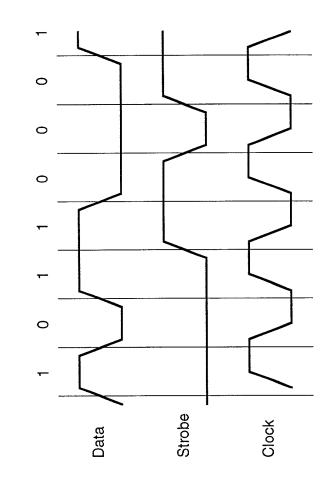
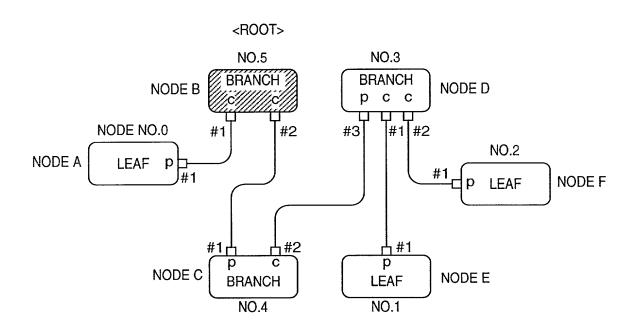


FIG. 13

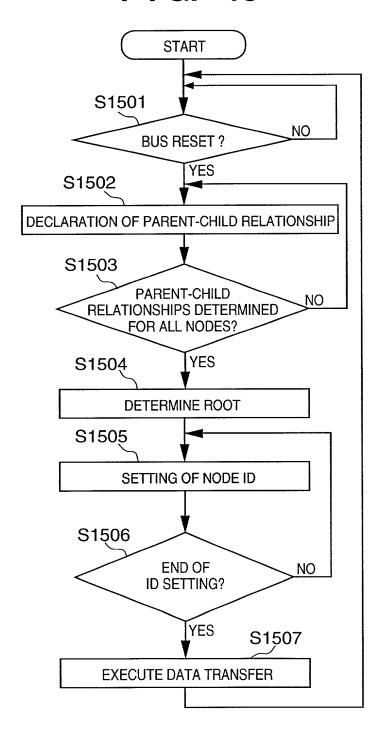
EXCLUSIVE OR SIGNAL OF Data AND Strobe

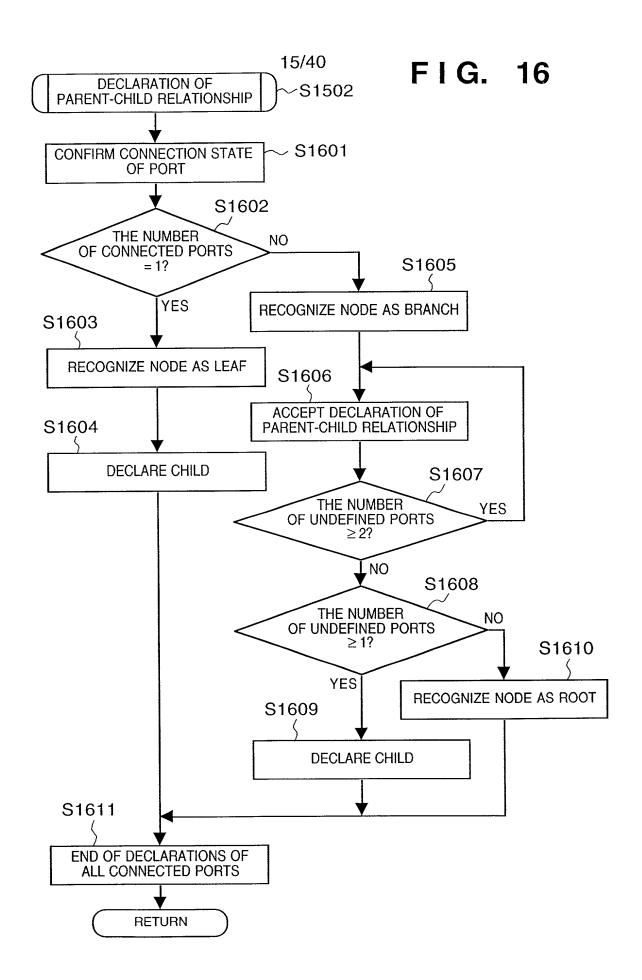




□:PORT

p : PORT CONNECTED TO PARENT NODE c : PORT CONNECTED TO CHILD NODE





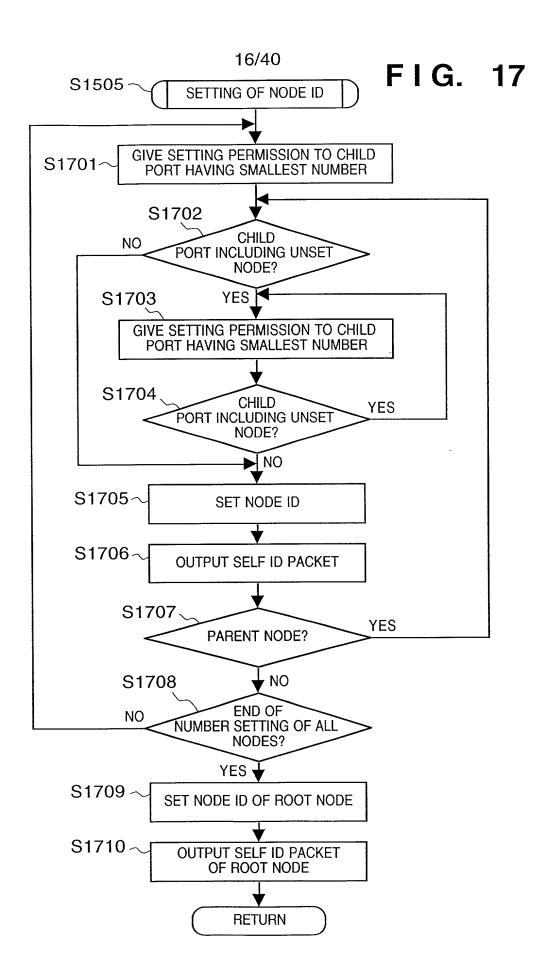


FIG. 18

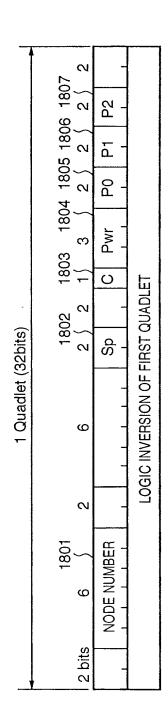


FIG. 19A

REQUESTS FOR BUS ACCESS

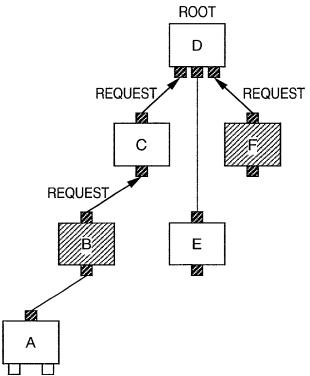


FIG. 19B

PERMISSION FOR BUS ACCESS

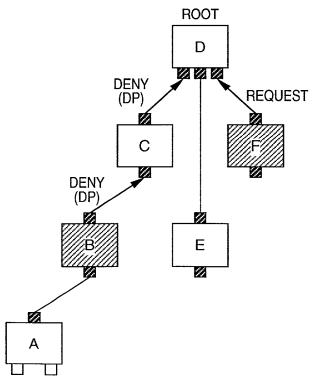


FIG. 20

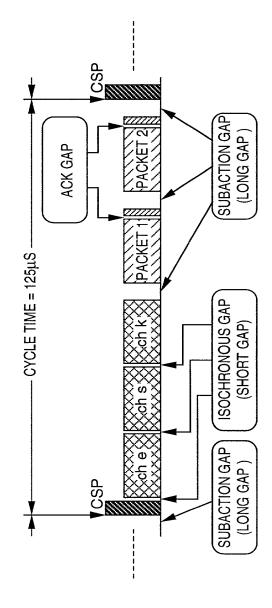
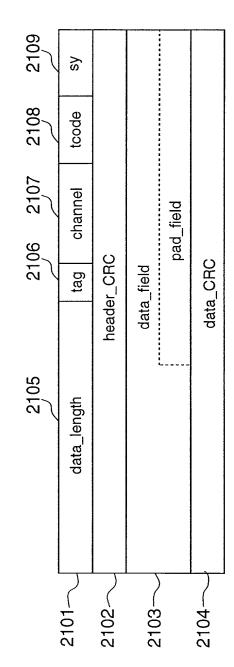


FIG. 21

PACKET OF ISOCHRONOUS DATA



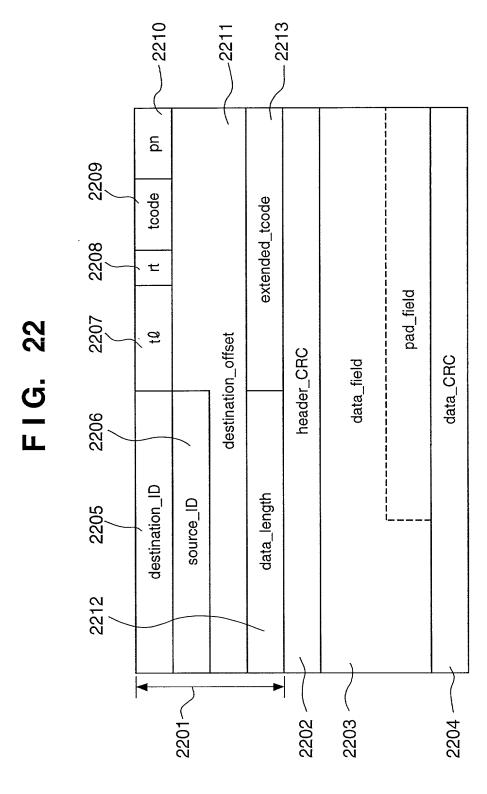
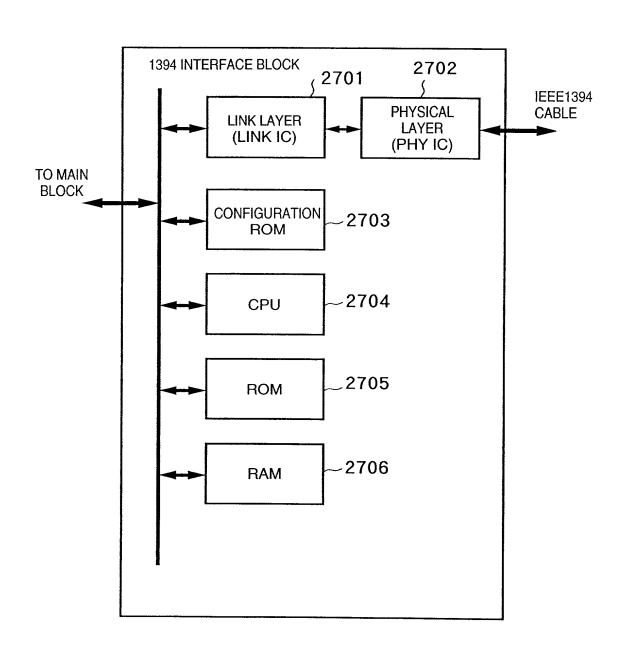
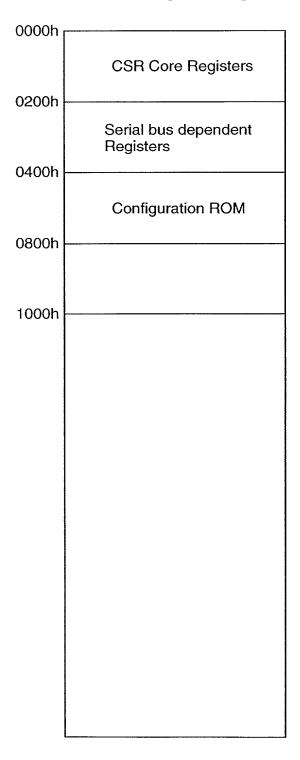


FIG. 23



	Bus Info Block Length	ROM L	ength.	CRC					
	Bus Info Block								
		Root D	irectory						
	Nod	e dependen	t info direct	tory					
		Unit dire	ectories						
	Instance directory	Bus Info Block Root Directory le dependent info director Unit directories Length (CRC_16						
	Key	key	word leaf o	ffset entry					
INSTANCE DIRECTORY	Key	Uni	t Directory	offset					
	Key	Fea	ture Direct	ory offset					
		Node depended Unit directory Length ey	p						
	keywordleaf Le	ength		CRC_16					
KEYWORD LEAF		Keywo	rds						
	Feature directory	Length		CRC_16					
DIRECTORY									
	Ver	ndor depend	lent informa	ation					

FIG. 25

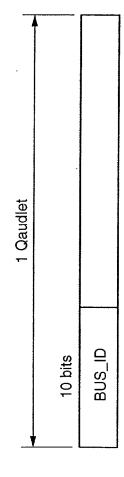


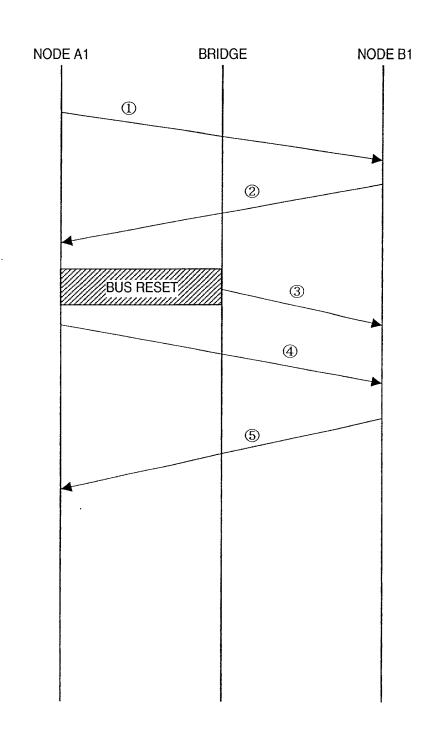
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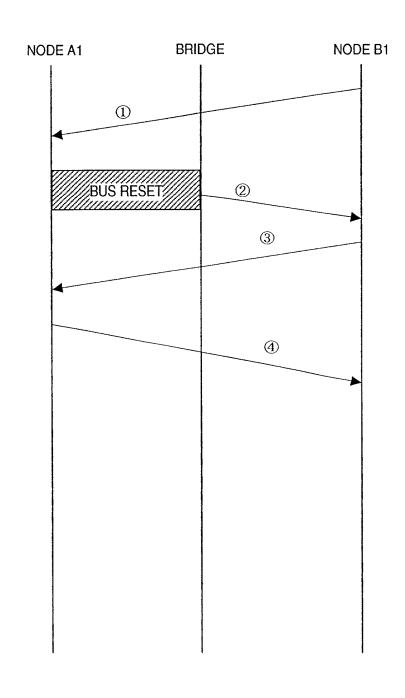
F I G. 26 SERIAL BUS REGISTER

FUNCTION	COUNTER FOR ISOCHRONOUS TRANSFER	REGISTER FOR SYNCHRONIZING TIME	VIGE SOM SERVING POWER STEPS A		CONTROL RETRY OF TRANSACTION LAYER	RESERVED	NODE TRANSFER OF BUS MANAGER	MANAGE ISOCHRONOUS TRANSFER BANDWIDTH	MANAGE ISOCHRONOUS TRANSFER CHANNEL NUMBER	dataload oltoonoxid	טואפועט ווט אבפוט בא.	RESERVED	BUS RESET NOTIFICATION ON REMOTE BUS
REGISTER NAME	CYCLE_TIME	BUS_TIME	POWER_FAIL_IMMINENT	POWER_SOURCE	BUSY_TIMEOUT		BUS_MANAGER_ID	BANDWIDTH_AVAILABLE	CHANNELS_AVAILABLE	MAINT_CONTROL	MAINT_UTILITY		REMOTE_BUS_RESET
OFFSET (HEXADECIMAL)	200	204	208	20C	210	214~218	21C	220	224~228	22C	230	234~3FC	240

FIG. 27



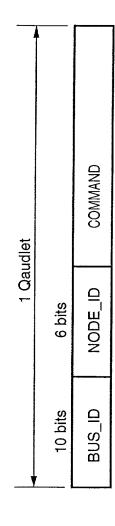




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	SEI	SERIAL BUS REGISTER FIG. 30
OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCHRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	
20C	POWER_SOURCE	REGISTER CONCERNING POWER SUPPLY
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214~218		RESERVED
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE ISOCHRONOUS TRANSFER BANDWIDTH
224~228	CHANNELS_AVAILABLE	MANAGE ISOCHRONOUS TRANSFER CHANNEL NUMBER
22C	MAINT_CONTROL	ant to one of the other transfer of the othe
230	MAINT_UTILITY	
234~3FC		RESERVED
240	REMOTE_BUS_RESET	BUS RESET NOTIFICATION ON REMOTE BUS
244	NOTIFY_BUS_RESET	RESERVATION OF BUS RESET NOTIFICATION ON REMOTE BUS

FIG. 31



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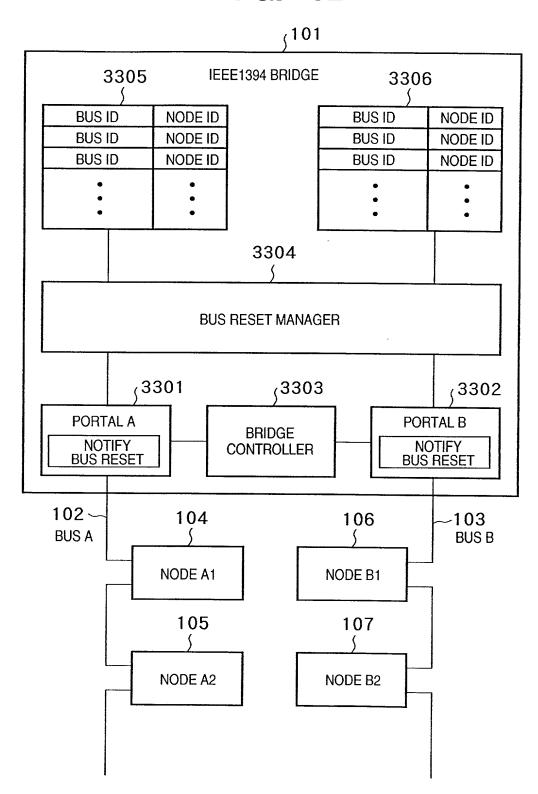
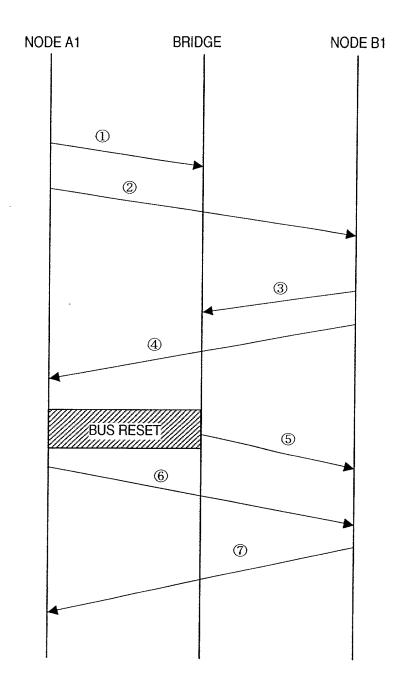


FIG. 33



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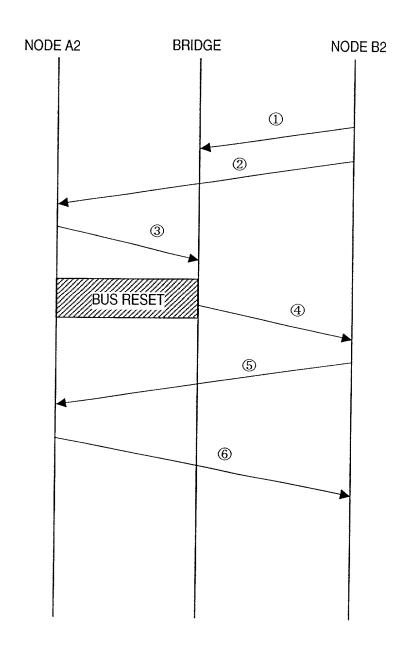
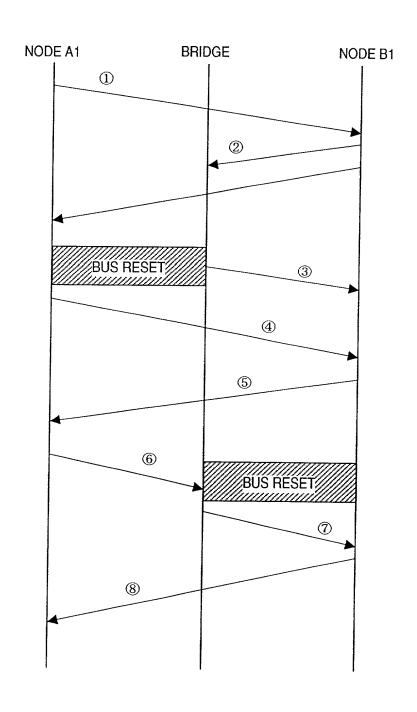
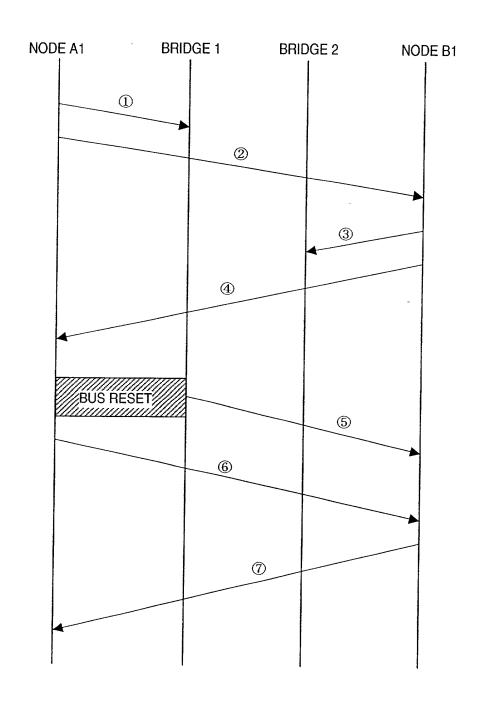


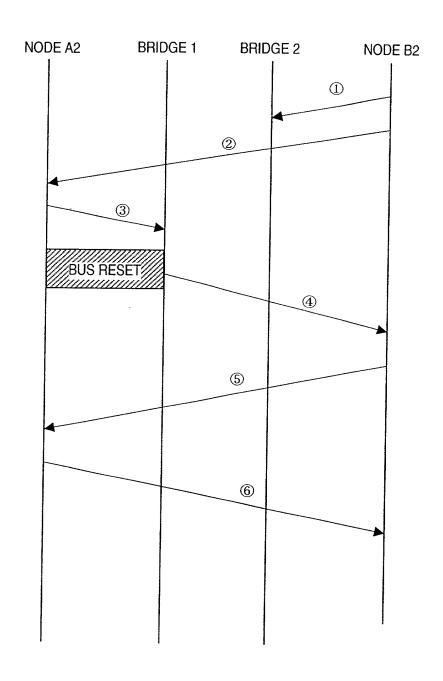
FIG. 35



3406 NODE B2 BUS B 3405 NODE B1 PORTAL B 1394 BRIDGE B 3402 PORTAL C2 3408 NODE C2 FIG. 36 BUS C 3407 NODE C1 PORTAL C1 1394 BRIDGE A 3401 PORTAL A NODE A2 3404 **BUSA** 3409 3403 NODE A3 NODE A1

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		T	T			T						
FUNCTION	COUNTER FOR ISOCHRONOUS TRANSFER	REGISTER FOR SYNCHRONIZING TIME		REGISTER CONCERNING POWER SUPPLY	CONTROL RETRY OF TRANSACTION LAYER	RESERVED	NODE ID OF BUS MANAGER	MANAGE ISOCHRONOUS TRANSFER BANDWIDTH	MANAGE ISOCHRONOUS TRANSFER CHANNEL NUMBER		DIAGNOSTIC REGISTER	RESERVED
REGISTER NAME	CYCLE_TIME	BUS_TIME	POWER_FAIL_IMMINENT	POWER_SOURCE	BUSY_TIMEOUT		BUS_MANAGER_ID	BANDWIDTH_AVAILABLE	CHANNELS_AVAILABLE	MAINT_CONTROL	MAINT_UTILITY	
OFFSET (HEXADECIMAL)	200	204	208	20C	210	214~218	21C	220	224~228	22C	230	234~23C

